<u>CASE 2940:</u> Application of TEXACO for a waterflood project, Square Lake Pool, Eddy County, New Mexico.

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Application, Transcripts, SMALL Exhibits FTC.



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R-30-E



TEXACO INC. SQUARE LAKE 31 UNIT EDDY COUNTY, NEW MEXICO

Unit Boundary OInjection Well OProposed Injection Well BEFORE EXAMINER NUTTER OIL CONSERVATION COMMISSION <u>Texaco</u> EXHIBIT NO. 4 CASE NO. 2939. 2940





OIL CONSERVATION COULISSION SANTA FE, NEW LEXICO

Date 11/22/63 2940 CASE Hearing Date gam 11/20/63

My recommendations for an order in the above numbered cases are as follows:

Enter an arden approving Texaco's proposed water flood in its Square Lake 31 think area. authorize 5 min jection welles: Texaco Suc 21-3 Fiederal NCT-1##1, L-3/ Texaco Suc. 21-3 Faderal NCT-2#4, H-31 Jahue H. Thigg Fiederal E-31#2 N-31 John H. Thigg Federal E-31#3 F-31 Quim H. Thigg Federal De Kall Federal # 1, P-31 Quim H. Thigg Federal De Kall Federal # 3, J-31 all in Tup 165, Rge 30 E. Injection will be into the remier Sand of the Granfung formation, Aquare Lake Pool, Eddy Co, H. They Use skandard WF order

Naudrum

BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION COMMISSION OF NEW MEXICO FOR THE PURPOSE OF CONSIDERING:

> CASE No. 2940 Order No. R-2609

APPLICATION OF TEXACO INC. FOR A WATERFLOOD PROJECT, BDDY COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on November 20, 1963, at Santa Fe, New Mexico, before Daniel S. Nutter, Examiner duly appointed by the Oil Conservation Commission of New Mexico, hereinafter referred to as the "Commission," in accordance with Rule 1214 of the Commission Rules and Regulations.

NOW, on this 6th day of December, 1963, the Commission, a quorum being present, having considered the application, the evidence adduced, and the recommendations of the Examiner, Daniel S. Nutter, and being fully advised in the premises,

FINDS:

(1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.

(2) That the Square Lake 31 Unit Agreement has been approved by the Commission by Order No. R-2608; that the Square Lake 31 Unit Area comprises 480 acres, more or less, of Federal land in Section 31, Township 16 South, Range 30 East, NMPM, Eddy County, New Mexico, as more fully described in said order.

(3) That the applicant, Texaco Inc., seeks permission to institute a waterflood project in the Square Lake Pool in the Square Lake 31 Unit Area by the injection of water into the Premier Sand of the Grayburg formation through six wells located within said unit area.

(4) That the wells in the project area are in an advanced state of depletion and should properly be classified as "stripper" wells.

(5) That the proposed waterflood project is in the interest of conservation and should result in recovery of otherwise unrecoverable oil, thereby preventing waste. -2-CASE No. 2940 Order No. R-2609

(6) That the subject application should be approved and the project should be governed by the provisions of Rule 701 of the Commission Rules and Regulations.

IT IS THEREFORE ORDERED:

(1) That the applicant, Taxaco Inc., is hereby authorized to institute a waterflood project in the Square Lake Pool in the Square Lake 31 Unit Area by the injection of water into the Premier Sand of the Grayburg formation through the followingdescribed six walls:

> SECTION 31, TOWNSHIP 16 SOUTH, RANGE 30 EAST, NMPM, EDDY COUNTY, NEW MEXICO

Texaco Inc. Etz Federal NCT-1 Well No. 1, Unit L Texaco Inc. Etz Federal NCT-2 Well No. 4, Unit H John H. Trigg Federal E-31 Well No. 2, Unit N John H. Trigg Federal E-31 Well No. 3, Unit F A. C. Holder et al DaKalb Federal Well No. 1, Unit P A. C. Holder et al DeKalb Federal Well No. 3, Unit J

(2) That the subject waterflood project shall be governed by the provisions of Rule 701 of the Commission Rules and Regulations, including the allowable provisions thereof, and including the provisions with respect to expansion of the waterflood project.

(3) That monthly progress reports of the waterflood project herein authorized shall be submitted to the Commission in accordance with Rules 704 and 1119 of the Commission Rules and Regulations.

(4) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.



STATE OF NEW MEXICO OFL CONSERVATION COMMISSION JACK M. CAMPBELL, Chairman SUUCIAL E. S. WALKER, Member

aites PORTER, Jr., Member & Secretary

es**t**/

OIL CONSERVATION COMMISSION P. 0. BOX 871

SANTA FE. NEW MEXICO

December 6, 1963

Mr. Charles White Gilbert, White & Gilbert Attorneys at Lew Post Office Box 787 Santa Fe, New Mexico

Dear Sir:

Enclosed herewith is Commission Order No. R-2609, entered in Case No. 2940, approving the Texaco Square Lake 31 Waterflood Project.

According to our calculations, when all of the authorized injection wells have been placed on active injection, the maximum allowable which this project will be eligible to receive under the provisions of Rule 701-E-3 is 462 barrels per day.

Please report any error in this calculated maximum allowable immediately, both to the Santa Fe office of the Commission and the appropriate district proration office.

In order that the allowable assigned to the project may be kept current, and in order that the operator may fully benefit from the allowable provisions of Rule 701, it behooves him to promptly notify both of the aforementioned Commission offices by letter of any change in the status of wells in the project area, i.e., when active injection commences, when additional injection or producing wells are drilled, when additional wells are acquired through purchase or unitization, when wells have received a response to water injection, etc.

OIL CONSERVATION COMMISSION P. O. BOX 871 SANTA FE, NEW MEXICO

-2-Nr. Charles White Gilbert, White & Gilbert Post Office Box 787 Santa Fe, New Mexico

Your cooperation in keeping the Commission so informed as to the status of the project and the wells therein will be appreciated.

Very truly yours,

A. L. PORTER, Jr. Secretary-Director

ALP/DSM/ir

Enclosure

cc: Oil Conservation Commission Artesia, New Maxico

TEXACO INC.

PETROLEUM PRODUCTS

Co. 2940

P. O. BOX 3109 Midland, Texas

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DOMESTIC PRODUCING DEPARTMENT MIDLAND DIVISION



Hew Mexico Oil Conservation Commission P. O. Box 871 Santa Fe, New Mexico

Attn: Mr. A. L. Porter, Jr.

Gentlemen:

Texaco Inc. as the initial operator of the proposed Square Lake 31 Unit, Square Lake (Grayburg-San Andres) Pool, Eddy County, New Mexico, respectfully requests that a hearing be scheduled to consider its application for (1) approval of the Square Lake 31 Unit Agreement, (2) approval to initiate waterflooding activities in the Square Lake (Grayburg-San Andres) Pool, and (3) approval to convert six wells to injection to form a normal five-spot pattern for waterflood operations. In support of our application we wish to state the following facts:

- 1. The proposed Square Lake 31 Unit is a portion of the Square Lake (Grayburg-San Andres) Pool, Eddy County, New Mexico.
- 2. Currently there are eleven wells in the proposed unit area producing from this reservoir at an approximate depth of 2700'.
- 3. The area sought to be designated as the Square Lake 31 Unit comprises 480 acres, more or less, situated in Eddy County, New Mexico and which is more particularly described as follows:

Township 16 South, Range 30 East New Mexico Principal Meridian

Sec. 31: S/2, S/2 NE/4, E/2 NW/4

- 4. The proposed pattern will be a normal fivespot and will consist of six injection wells.
- 5. The proposed wells to be converted to injection are as follows:

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Company	Lease and Well No.	Unit	<u>S. T.</u> R.
A. C. Holder et al A. C. Holder et al Texaco Inc. Texaco Inc. J. H. Trigg J. H. Trigg	DeKalb-Fed. No. 1 DeKalb-Fed. No. 3 A. N. Etz-Fed. NCT-1 No. 1 A. N. Etz-Fed. NCT-2 No. 4 "31-E" No. 2 "31-E" No. 3	P J L H W	31-16-30 31-16-30 31-16-30 31-16-30 31-16-30 31-16-30 31-16-30

Attached is a plat of the Square Lake 31 Unit with the boundary of the Unit shown by the hatched line. The proposed injection wells are shown circled in red. It is respectfully requested that the subject application be set on the first available hearing docket.

Yours very truly,

C.K. Black

C. R. Black Division Proration Engineer

CRB-M:



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DRAFT

JMD/esr

I da alto de B Lake BEFORE THE OIL CONSERVATION COMMISSION 462 301 OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION COMMISSION OF NEW MEXICO FOR THE PURPOSE OF CONSIDERING:

CASE No. 2940 Order No. R-___

APPLICATION OF TEXACO INC. FOR A WATERFLOOD PROJECT, EDDY COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. On <u>November 20</u>, 1963, at Santa Fe, New Mexico, before <u>Daniel S. Nutter</u>, Examiner duly appointed by the Oil Conservation Commission of New Mexico, hereinafter referred to as the "Commission," in accordance with Rule 1214 of the Commission Rules and Regulations.

NOW, on this day of <u>November</u>, 1963, the Commission, a quorum being present, having considered the application, the evidence adduced, and the recommendations of the Examiner, <u>Daniel S. Nutter</u>, and being fully advised in the premises,

FINDS:

(1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.

(2) That the Square Lake 31 Unit Agreement has been approved by the Commission by Order No. R-2608; that the Square Lake 31 Unit Area comprises 480 acres, more or less, of Federal land in Section 31, Township 16 South, Range 30 East, NMPM, Eddy County, New Mexico, as more fully described in said order.

(3) That the applicant, Texaco Inc., seeks permission to institute a waterflood project in the Square Lake Pool in the Square Lake 31 Unit Area by the injection of water into the Premier Sand of the Grandman formation through six wells located within said unit area.

(4) That the wells in the project area are in an advanced state of depletion and should properly be classified as "stripper"

wells.

-2-CASE No. 2940

(5) That the proposed waterflood project is in the interest of conservation and should result in recovery of otherwise unrecoverable oil, thereby preventing waste.

(6) That the subject application should be approved and the project should be governed by the provisions of Rule 701 of the Commission Rules and Regulations.

IT IS THEREFORE ORDERED:

(1) That the applicant, Texaco Inc., is hereby authorized to institute a waterflood project in the Square Lake Pool in the Square Lake 31 Unit Area by the injection of water into the Premier Sand phrough the following-described six wells:

> SECTION 31, TOWNSHIP 16 SOUTH, RANGE 30 EAST, NMPM, EDDY COUNTY, NEW MEXICO

Texaco Inc. Etz Federal NCT-1 Well No. 1, Unit L Texaco Inc. Etz Federal NCT-2 Well No. 4, Unit H John H. Trigg Federal E-31 Well No. 2, Unit N John H. Trigg Federal E-31 Well No. 3, Unit F A. C. Holder et al DeKalb Federal Well No. 1, Unit P A. C. Holder et al DeKalb Federal Well No. 3, Unit J

(2) That the subject waterflood project shall be governed by the provisions of Rule 701 of the Commission Rules and Regulations, including the allowable provisions thereof, and including the provisions with respect to expansion of the waterflood project.

(3) That monthly progress reports of the waterflood project herein authorized shall be submitted to the Commission in accordance with Rules 704 and 1119 of the Commission Rules and Regulations.

(4) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

DONE at Santa Fe, New Mexico, cn the day and year hereinabove designated.



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BEFORE THE NEW MEXICO OIL CONSERVATION COMMISSION Santa Fe, New Mexico November 20, 1963 EXAMINER HEARING 243-6691 and CROWNOVER IN THE MATTER OF: 0110 CASE NO. 2939 & Application of Texaco, Inc. for a unit Pho agreement, Eddy County, New Mexico; 2940 Application of Texaco, Inc. for a waterflood project, Eddy County, New Maxico. Mexico Court Reporting Service New WILKINS DANIEL S. NUTTER, EXAMINER BFFORE: Albuquerque, TRANSCRIPT OF HEARING MR. NUTTER: The hearing will come to order, please. DEARNLEY, MEIER, General We will call first Case 2939 and Case 2940. Building MR. DURRETT: Application of Texaco, Inc. for a unit agreement, Eddy County, New Mexico, and application of Texaco, Inc. Simms for a waterfdood project, Eddy County, New Mexico. MR. WHITE: Charles White of Santa Fe, New Mexico, 1120 appearing on behalf of the applicant. We have one witness to be Suite sworn. (Witness sworn) MR. WHITE: If the Examiner please, for the sake of the hearing and saving of time, we would like to move that Cases 2939 and 2940 be consolidated for the purposes of the hearing.

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		MR. NUTTER: Cases 39 and 40 will be consolidated for
		hearing purposes.
		MR. WHITE: Thank you.
	105	D. M. WILLIAMS,
ĨR	1099 280	called as a witness herein, having been first duly sworn, was
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AAC	F.	DIRECT EXAMINATION
RC		8 BY MR. WHITE:
MEIER, WILKINS and CROWNOVER	vice .	Q Mr. Williams, will you state your name, full name, for the record?
ë N	, Ser	3 the record?
NI	ortine	
ILK	t Rep	Q And by whom and in what capacity are you employed?
A	General Court Reporting Service	A Don M. Williams. Q And by whom and in what capacity are you employed? A Employed by Texaco, Inc., District Petroleum Engineer in
ER,	neral	Hobbs, New Mexico.
MEI	Ğ	Q Are you familiar with the applications in Cases 2939 and
		29 40 ?
ΠE	-	
IRN	ż	A Yes, sir, I am. Q Will you briefly state what Texaco is seeking by the
DEARNLEY,		applications?
	•	applications? B A As initial unit operator, Texaco seeks approval of the
		Square Lake 31 Unit Agreement, seeks approval to initiate another
		flood activity in the proposed unit; third, approval to convert siz
		wells to water injection.
		Q Will you refer to what hasbeen marked Exhibit One, and

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Exhibit One is a plat which shows the proposed unit area, and the immediate area surrounding the unit. The unit is outlined by a hash line and contains some 480 acres more or less, consisting 660 of the Southeast Quarter, the South Half of the Northeast Quarter, 243. the Southwest Quarter and the East Half of the Northwest Quarter of Phone Section 31, Township 16 South, Range 30 East, Eddy County, New Mexico. Q All right. Mexico The plat also shows the names of the current operators A New of tracts within the unit, and it shows offset leases and operators. Does the plat show the producing wells within the unit, Q the proposed injection wells? Bu Yes, sir, it does. It shows 11 producing wells, which λ are completed, an average depth of approximately 3700. The six би wells which are proposed for conversion to water injection are Buildi indicated on the plat by diagonal arrows and are further indicated Simms by red circles around the wells.

explain the exhibit, please?

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Is the unit a portion of Square Lake Grayburg-San Andres Q 1120 Poo1?

Yes, it is. A

Would the proposed pattern be the normal five-spot, and Q if so, wouldyou give the location of the injection wells?

Yes, sir. Conversion of the six indicated wells to water A injection will provide five-spot injection pattern. Locations of

DEARNLEY, MEIER, WILKINS and CROWNOVER -14 k-i - Ť ż .

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PAGE 5 these proposed injection wells are as follows: One in the Southeast of the Southeast; one in the Northwest of the Southeast; third in the Southeast of the Northeast; fourth in the Southeast of the Southwesty mother in the Northwest of the Southwest; and the 6th 243-669 well in the Southeast of the Northwest Quarter, all in Section 31. Now, will you refer to Exhibit Number Two. Exhibit Number Q Phone. Two is what? Exhibit Number Two is a copy of the unit agreement, or the λ development and operation of the Square Lake 31 Unit area. Mexico Is this a standard unit agreement? Q General Court Reporting Service New . Yes, sir, it is. Ä Usual API form? Q Albuquerque, Yes, sir. A Has the USGS tentatively approved the unit agreement? Q Yes. USGS Roswell office has indicated tentative A iilding approval of the unit agreement, and at the present time, the unit agreement is in the USGS office in Washington DC for approval. Bui Simms Does the unit agreement embrace all Federal lands? 0 Yes. All of the area within the proposed unit boundary λ 1120 is Federal land and the owner of the basic royalty on all tracts Suite . is the United States. What percent of overriding royalty interest owners have Q signed up? All of the overriding royalty interest and all of the Α working interests have signed the agreement.



Then, you will have one hundred percent participation? Yes, sir. With the signature of the USGS, we will have Q A 100 percent participation. Now, will you refer to what has been marked Exhibit Q Three, and give the history of the production? Exhibit Three is a graph showing production performance 243-669. curves for the area, comprising the Square Lake 31 Unit. Specifically shown on this graph are curves showing number Phone of wells, monthly oil production, monthly water production, gasoil ratio, and accumulative oil production. All of these curves exicc covering by months the time interval from May, 1958, which was Service Z the month in which first production was obtained in the unit area, 3 General Court Reporting Ibuquerque, through August of 1963. Does this exhibit show these wells are producing in the Q ΫŸ stilpper stage? Yes. The curves show that peak oil production was obtained in April, 1959, when production from the 11 wells in the ви Buildin unit area was approximately 11,400 barrels of oil per month, and DEARNLEY, that production has declined to monthly production of approximately ш. U 500 barrels of oil per month. From all of the wells in the unit area, that is. Currently, then, this is an average of less than Suite two barrels of oil per well per day. Will you now refer to and explain Exhibit Four? Exhibit Four is a plat showing the unit area outlined in Q yellow, the proposed injection wells circled in red, and all wells

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in the unit area and within one mile in each direction from the unit area.

Q Does it also show the water injection wells in the Square Lake Salsich Waterflood?

A Yes, sir. This plat shows circled in green existing water injection wells in Section 36, adjacent to the unit area to the west. These are existing in the Square Lake Salsich Waterflood.

Q This proposed waterflood project is being conducted with the cooperation of the operators of the Salsich Waterflood?

A Yes, sir. Preliminary arrangements have been made and agreement obtained to cooperatively waterflood along the common line between the proposed Square Lake 31 Unit and the Salsich property to the west. It is planned to accomplish this cooperative injection by conversion of wells circled in red in Section 36. The injection pattern will mesh and will be continuous on the Cooperating tracts.

Q What comments do you care to make in regard to the wells circled in red to the South of the unit?

A Operators of the properties offsetting the proposed Square Lake 31 Unit to the South are currently completing negotiations to develop a unitized or a cooperative waterflood program on their lease, which will enable cooperative injection with the pattern shown by wells circled in red.

Q Do you have any completion data on your injection wells? A Yes, sir. These data are shown on Exhibit Five.

DEARNLEY, MEIER, WILKINS and CROWNOVER Contend Court Reporting Service

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Will you explain Exhibit Five, please? Q

Exhibit Five is a tabulation of data on the following Ά proposed injection wells identified by current operator and lease. A. C. Holder, et al Decal Federal Number One; A. C. Holder, et al Decal Federal Number Three; John H. Trigg Federal Well Number Two-34; 243-(John H. Trigg Federal Well Number Three-31; Texaco, Inc. et al Federal Well Number One, and Texaco, Inc. et al Federal NCT2 Well Number Four. For each of these wells, is shown total depth, completion interval, size and depth set for all casing strings and number of sax of cament used on all casing strings.

> How do you intend to inject the water? Q

Injection will be down tubing; each injection well will λ lbuquerque, be equipped for water injection by installing 2 3/8ths OD tubing and a packer with the packer to be set immediately above the top of the casing perforation. The tubing casing annulus in each injection well will be filled with fluid containing a corosion inhibitor. Also, the inside of the injection tubing will be plastic coated to prevent corosion.

In your opinion, will there be any communication with Q any other zones or formations?

In my opinion, the injection wells will be so equipped A as to eliminate communication of injection-of injected water to any other zones.

What will be your source of supply for water? Q

It is planned to obtain water for injection by purchasing A



DEARNLEY, MEIER, WILKINS and CROWNOVER General Court Reporting Service 600

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water from Caprock Water Company, a commercial water company.

Will that be fresh water? 0

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General Court Reporting Service

This water is brackish water produced from shallow wells. A What is your planned rate of injection? 0

It is planned to initially inject 300 barrels of water A per day per injection well, or a total of 1800 barrels of water per day for the six total injection wells in the unit area. Initial injection pressures are not expected to exceed 1000 pounds per square inch, but equipment will be designed to handle injection at a maximum pressure of 2200 pound per square inch, if needed.

Q What do you estimate your secondary recovery to be? A It is estimated that total oil recovered from water flood ing will equal the total amount of oil produced by primary recovery.

Q Will you now refer to Exhibit Six, and explain that, please?

βι Exhibit Six consists of five separate radio activity A logs, one each on five of the six proposed injection wells. Those wells logged are the Texaco-Etz Federal NCT1 Well Number One; the A Texaco-Stz Federal NCT2 Well Number Four; the John H. Trigg Federal E Well Number 2-31; the A. C. Holder, et al, Decal Federal Well Number One, and the A. C. Holder, et al, Decal Federal Number Three

You have no log for the Trigg Number Three? Q

λ No, sir. A log was not run and therefore, not available on the John H. Trigg Federal E Number 3-31. On each of the logs Exhibit Five, a completion interval is marked in red. in each - -



PAGE 9

Do these exhibits truely and correctly - -Are these Q exhibits true and correct to the best ofyour knowledge and belief?

Yes, sir, they are. Α

At this time we offer the exhibits. Q

243-6691 MR. NUTTER: Texaco's Exhibits One through Six will be admitted in evidence.

MR. WHITE: That concludes our testimony on direct. MR. NUTTER: Are there any questions of this witness? MR. IRBY: Would you tell me the location of the water

source well?

WILKINS and CROWNOVER

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Mexico Mr. Irby, I do not have the exact location of this water New λ source well. Pardon me. I have some information that identifies lbuquerque the well by name, if I can locate it here. Just one minute, please. It is my understanding that the Caprock Water source well that would supply water to this project is known as their Watson Water Supply Well, in Section Two. Now, I don't have the township or Building range. I understand that this is located some distance west of the ms unit area, and I believe it is the same source that is currently Sim supplying the Salsich waterflood to the west of the proposed unit. 1120

MR. IRBY: Can you give me an approximate distance how far west of the unit area?

It is being delivered to the Salsich properties, that would A be approximately one mile west of this unit area. I assume that line will be extended to this proposed unit.

MR. IRBY: Well, can you get that and mail it to me?



PAGE 10

A	Yes, sir,	I certainly can.
	MR TRRV.	And will?

That will be the exact location of the water source well, λ or wells?

MR. IRBY: Thank you. That is all I have, Mr. Nutter.

Yes, sir. We will mail that to you.

MR. IRBY: Yes.

and CROWNOVER Service WILKINS Reporting General MEIER, DEARNLEY.

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Phone MR. NUTTER: Mr. Williams, I notice in the unit agreement on Page Two, that the area is described as being Lots Two Mexico and Three in the East Half of the West Half and all of the East New Half of the Section 31, being 553 acres, yet the plat and the application is for 480 acres, leaving out the Featherstone Eight, õ North Half of the Northeast. Is that in the unit or not? Albu No, sir, it is not in the unit. The area shown in A

Exhibit A of the unit agreement and in Exhibit B of the unit agreement describes correctly the area within the unit boundary.

MR. NUTTER: Well, will the unit agreement then be amended here in Section Two, Paragraph A, where it is incorrectly described?

1120 I was not aware of this discrepancy here. I presume, Α iite Mr. Examiner, that if it is required to obtain approval of all S. parties, it would be amended.

MR. NUTTER: It would appear that that portion of it is incorrect, if Exhibits A & B are correct.

Yes, sir. It would appear that there is a discrepancy



here in the written portion in Section Two, and the Exhibits A & B. I am sure that the area shown in Exhibits A & B dc properly describe the unit.

MR. NUTTER: Another thing I was wondering about, Mr. Williams, on Decal Wells, it appears that both of those injection 600 243wells have three zones of perforations, and the other wells have Phone only one. Will you inject into all three of those zones on the Decal wells?

Yes, sir. we intend to inject into all zones open in the A ell.

MR. NUTTER: How many wells, of the producing wells, New i produce from these extra two sets of perforations that the Decal wells have?

I don't have the exact completion data on all of the A producing wells. I believe that a number of the producing wells have those intervals open, but I am not certain as to exact number. Buildin

MR. NUTTER: Then, you estimate that your secondary

Simms recovery will be approximately equal to the primary?

Yes, sir, we do. A

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MR. NUTTER: Total primary for the area is about 190,000 barrels?

That is approximately correct, yes, sir. A

MR. NUTTER: Are there any other questions? You may be excused. Do you have anything further in this case, Mr. White? MR. WHITE: That concludes our testimony.

	MR. NUTTER: Does anyone have anything they wish to offer
	in Case 2939 or 2940? Take the cases under advisement.
	* * * *
EIER, WILKINS and CROWNOVER General Court Reporting Service Albuquerane. New Mexico Phone 243-6691	going and attached Transcript of Hearing before the New Mexico Oil Conservation Commission was reported by me, and that the same is a true and correct record of the said proceedings, to the best of my knowledge, skill, and ability. WITNESS my Hand and Seal of Office, this 23rd day of
DEARNLEY, MEIER, General Suits 1120 Simme Building A	NOTARY PUBLIC My Commission Expires:

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PAGE -2-Docket No. 34-63

CASE 2944: Application of Socony Mobil Oil Company for an unorthodox location, Lea County, New Mexico. Applicant, in the abovestyled cause, seeks approval of an unorthodox location for a proposed triple completion in the Vacuum-Devonian, Vacuum-Wolfcamp and North Vacuum-Abo Pools, Lea County, New Mexico, said well to be drilled at a point 600 feet East of the center of the NW/4 SW/4 of Section 36, Township 17 South, Range 34 East.

Oil Conservation Commission

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Docket No. 34-63

DOCKET: EXAMINER HEARING - WEDNESDAY - NOVEMBER 20, 1963

9:00 A. M. - OIL CONSERVATION COMMISSION CONFERENCE ROOM, STATE LAND OFFICE BUILDING - SANTA FE, NEW MEXICO

The following cases will be heard before Daniel S. Nutter, Examiner, or Elvis A. Utz, Alternate Examiner:

CASE 2939: Application of Texaco Inc. for a unit agreement, Eddy County, New Mexico: Applicant, in the above-styled cause, seeks approval of the Square Lake 31 Unit Area comprising 480 acres, more or less, of Federal land in Section 31, Township 16 South, Range 30 East, Eddy County, New Mexico.

<u>CASE 2940:</u> Application of Texaco Inc. for a waterflood project, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a waterflood project in the Square Lake Pool, Eddy County, New Mexico, by the injection of water into the Premier Sand through six wells located in Section 31, Township 16 South, Range 30 East.

CASE 2941: Application of Texaco Inc. for a triple completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the triple completion (tubingless) of its L. R. Kershaw Well No. 9, located in Unit B of Section 13, Township 20 South, Range 37 East, Lea County, New Mexico, to produce oil from the Skaggs Glorieta and East Weir Blinebry Pools and gas from the Weir Tubb Gas Pool through parallel strings of 2 7/8 inch casing cemented in a common well bore.

- CASE 2942: Application of Sunray DX Oil Company for the creation of a new oil pool and for special temporary pool rules, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the creation of a new Bough "C" Oil Pool for its New Mexico State "AO" Well No. 1, located in Unit M of Section 16, Township 10 South, Range 34 East, Lea County, New Mexico, and the establishment of temporary pool rules therefor, including a provision for 160-acre provation units and for fixed well locations.
- <u>CASE 2943:</u> Application of Gulf Oil Corporation to combine two existing gas pools, Lea County, New Mexico. Applicant, in the abovestyled cause, seeks the consolidation of the Monument-Ellenburger and Monument-McKee Gas Pools, Lea County, New Mexico, into a single pool to be operated and prorated under the existing rules for the Monument-McKee Pool.